

Title (en)

Photosensitive resin composition, photosensitive printing plate and method of manufacturing printing master plate

Title (de)

Lichtempfindliche Harzzusammensetzung, lichtempfindliche Druckplatte und Verfahren zur Herstellung einer Originaldruckplatte

Title (fr)

Composition de résine photosensible, plaque d'impression photosensible et procédé pour la production d'une plaque matrice d'impression

Publication

EP 0720053 B1 20020904 (EN)

Application

EP 95120733 A 19951229

Priority

JP 33910794 A 19941229

Abstract (en)

[origin: EP0720053A2] A photosensitive resin composition comprising a high polymer binder, a monomer, a photopolymerization initiator generating a radical on exposure to visible light of a wavelength of 400 to 700 nm such as triazine compounds, titanocene compounds, or acridine compounds, an optically-activated acid generating agent generating an acid on exposure to light of a wavelength of 200 to 380 nm, and a color former developing a color in the presence of an acid, and a method manufacturing a printing master plate comprising the steps of exposing a photosensitive printing plate which has a laminated layer made from a photosensitive resin composition thereon to visible light of wavelength in the range of 400 to 600 nm selectively in an imagewise configuration in order to harden the resin composition layer, developing the photosensitive printing plate, and further exposing the developed plate to light of a wavelength in the range 200 to 380 nm. The photosensitive resin composition has a wide range of wavelengths of light to which the resin composition is sensitive on exposure and forms a good image with visible laser and the photosensitive printing plate is excellent in pattern distinctiveness, easy in handling, and excellent in working efficiency. The method is useful in an industrial field due to simplicity and easiness in view of the fact that it includes only the main steps of exposing the photosensitive printing plate to visible light of a wavelength of 400 to 700 nm and then to light of a wavelength of 200 to 380 nm which is shorter than the former.

IPC 1-7

G03F 7/028; **G03F 7/105**

IPC 8 full level

G03F 7/028 (2006.01); **G03F 7/105** (2006.01)

CPC (source: EP US)

G03F 7/028 (2013.01 - EP US); **G03F 7/105** (2013.01 - EP US)

Cited by

WO02101462A1; EP2186637A1; CN100354750C; US7393623B2; US9738064B2; US7220535B2; WO2010046384A1; WO02100914A3; WO2004052654A1; US7264916B2; US7655380B2; WO02100914A2; US7150958B2; US8003297B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0720053 A2 19960703; **EP 0720053 A3 19960821**; **EP 0720053 B1 20020904**; DE 69528034 D1 20021010; DE 69528034 T2 20030417; US 5885746 A 19990323

DOCDB simple family (application)

EP 95120733 A 19951229; DE 69528034 T 19951229; US 58035695 A 19951228